Flowmeters should be installed in steam lines to turbines and all matic extraction lines. It is not necessary nor desirable to have meters in lines to feedwater It is not enough to measure steam from each boiler or the the main steam header. There be enough instruments to measure record steam consumption of each bine so that a decrease in efficiency in capacity can immediately be tected.

Power-plant designers and manufacturers of turbines and other power-plant equipment have brought efficiencies to a level where it is difficult and costly to gain another percent. Much can be gained in most plants by ing maintenance the attention it serves and by setting up repair schedules based on sound principles of economy.

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Plant Problems
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able and free from cracks.

Slip should not be tolerated, not only because of shortening belt life but because it is directly proportional to power loss. Thus a 1% slip represents a 1% power loss, or a 10% slip a 10% power loss, etc.

Montreal, Que. ARTHUR BELTON

Roughen Engine Flywheel

CALCULATIONS INDICATE that *Mr.*'s belt is wide enough for the load of 250 hp. Therefore, the cause of slippage can be traced to lack of friction between the engine pulley and belt surface.

Friction between belt and pulley may be increased by tightening the belt. Clamps with spring balances between